

Data sheet**6GK6024-8GS2-....****Product type designation**

Product description

RUGGEDCOM RSG2488

Advanced utility grade, high density layer 2 Ethernet Switch
 RUGGEDCOM RSG2488 IS A RUGGEDRATED FULLY MANAGED
 ETHERNET SWITCH; 128-BIT ENCRYPTION; UP TO 28 NON-
 BLOCKING PORTS; CONFIGURED AS: 10/100/1000TX COPPER,
 100FX OR 1000SX FIBER. SUPPORT SIX 4-PORT MODULES
 PLUS TWO 2-PORT MODULES MIXTURE OF FIBER OPTIC OR
 COPPER GIGABIT PORTS WITH UP TO 28 GIG ETHERNET
 PORTS; 40 CEL. TO +85 CEL. OPERATING TEMPERATURE
 (FANLESS)



Figure similar

Transmission rate

| | |
|---------------|------------------------------------|
| Transfer rate | 10 Mbit/s, 100 Mbit/s, 1000 Mbit/s |
|---------------|------------------------------------|

Interfaces

| | |
|------------------------------------------|--|
| Number of electrical/optical connections | |
|------------------------------------------|--|

- for network components or terminal equipment / maximum

| |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 28; up to 6 x 4-port modules plus 2 x 2-port modules (total 28 ports), mixture of fiber optic or copper Gigabit ports with up to 28 Gigabit-Ethernet ports |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|

- for gigabit Ethernet / maximum

| |
|----|
| 28 |
|----|

| | |
|----------------------------------|--|
| Number of electrical connections | |
|----------------------------------|--|

- for network components or terminal equipment / maximum

| |
|----|
| 28 |
|----|

- for gigabit Ethernet / maximum

| |
|----|
| 28 |
|----|

| | |
|------------------------------|--|
| Number of optical interfaces | |
|------------------------------|--|

- for network components or terminal equipment / maximum

| |
|----|
| 28 |
|----|

| | |
|---------------------------------|--|
| Design of the optical interface | |
|---------------------------------|--|

- for fiber optic cable / at 100 Mbit/s

| |
|----|
| FX |
|----|

| | |
|--------------------------------------------------------------------------------------------|---------------|
| <ul style="list-style-type: none"> • for fiber optic cable / at 1000 Mbit/s | SX |
| Range / at the optical interface / depending on the optical fiber used | 2 ... 90 km |
| <ul style="list-style-type: none"> • with gigabit | 0.5 ... 70 km |

Interfaces / others

| | |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| Number of electrical connections | |
| <ul style="list-style-type: none"> • for operator console | 1 |
| <ul style="list-style-type: none"> • for management purposes | 1 |
| Type of electrical connection | |
| <ul style="list-style-type: none"> • for operator console | RS232 |
| <ul style="list-style-type: none"> • for management purposes | RJ45 |
| <ul style="list-style-type: none"> • for power supply and signaling contact | 10-pole terminal block, screwable or plugable, screw contact |

Supply voltage, current consumption, power loss

| | |
|-------------------------------------------------------------------------------------------------|--------------|
| product options / wide range power supply | Yes |
| Product feature | |
| <ul style="list-style-type: none"> • Modular power supply | Yes |
| <ul style="list-style-type: none"> • Hot-swappable power supply | Yes |
| Type of voltage supply / redundant power supply unit | Yes |
| Supply voltage | |
| <ul style="list-style-type: none"> • at AC / rated value | 88 ... 264 V |
| Supply voltage / 1 / Rated value | 24 V |
| <ul style="list-style-type: none"> • Supply voltage / 1 / rated value | 10 ... 36 V |
| <ul style="list-style-type: none"> • Type of voltage / 1 / of the supply voltage | DC |
| Supply voltage / 2 / Rated value | 48 V |
| <ul style="list-style-type: none"> • Supply voltage / 2 / rated value | 36 ... 72 V |
| <ul style="list-style-type: none"> • Type of voltage / 2 / of the supply voltage | DC |
| Supply voltage / 3 / Rated value | |
| <ul style="list-style-type: none"> • Supply voltage / 3 / rated value | 88 ... 300 V |
| <ul style="list-style-type: none"> • Type of voltage / 3 / of the supply voltage | DC |
| Supply voltage / 4 / Rated value | |
| <ul style="list-style-type: none"> • Supply voltage / 4 / rated value / minimum | 85 V |
| <ul style="list-style-type: none"> • Supply voltage / 4 / rated value / maximum | 264 V |
| <ul style="list-style-type: none"> • Type of voltage / 4 / of the supply voltage | AC |
| Supply voltage | |
| <ul style="list-style-type: none"> • at DC / rated value / minimum | 100 V |
| <ul style="list-style-type: none"> • at DC / rated value / maximum | 300 V |
| Product component / fusing at power supply input | Yes |

Permitted ambient conditions

| | |
|----------------------------------------------------------------------|----------------|
| Ambient temperature | |
| <ul style="list-style-type: none"> • during operation | -40 ... +85 °C |

| | |
|-----------------------------------------|-------------------------------------------------------------------------------------|
| • Note | A maximum operating temperature of +85 °C is permissible for a duration of 16 hours |
| Operating condition / fanless operation | Yes |
| Coating | Conformal Coating optional |
| Protection class IP | IP40 |

Design, dimensions and weight

| | |
|----------------------------------------------------------------------|----------------------------------------------|
| Display version / LED panel mounted on the front or on the rear side | Yes |
| Design | 19" rack |
| Number of modular height units / relating to 19-inch cabinet | 1 |
| Number of slots | 8 |
| Width | 442.4 mm |
| Height | 44 mm |
| Depth | 376 mm |
| Net weight | 5.2 kg |
| Material / of the enclosure | 18 AWG galvanized steel enclosure |
| Mounting type | Mounting Kits for different mounting options |
| • 19-inch installation | Yes |
| • 35 mm DIN rail mounting | Yes |
| • wall mounting | Yes |

Product properties, functions, components / general

| | |
|-------------------------------------------------|-----------|
| Number of automatically learnable MAC addresses | 8192 |
| Storage capacity | |
| • of the MAC-address table | 64 Kibyte |
| Switch latency period | 5 µs |
| Product feature | |
| • no head-off-line-blocking | Yes |
| • Store & Forward switching method | Yes |

Product functions / management, configuration

| | |
|---------------------------|-----|
| Product function | |
| • CLI | Yes |
| • web-based management | Yes |
| • MIB support | Yes |
| • RMON | Yes |
| • switch-managed | Yes |
| Protocol / is supported | |
| • Telnet | Yes |
| • HTTP | Yes |
| • HTTPS | Yes |
| • TFTP | Yes |
| • IGMP (snooping/querier) | Yes |

| | |
|------------------------------------|-----------------------------------------------|
| Number of groups / at IGMP | 256 |
| Protocol / is supported | |
| • SNMP v1 | Yes |
| • SNMP v2 | No |
| • SNMP v2c | Yes |
| • SNMP v3 | Yes |
| Product function / for MIB support | |
| • by BRIDGE-MIB | RFC1493 |
| • by IF-MIB | RFC2863 |
| • by RMON-MIB | RFC2819 |
| • by RSTP-MIB | draft-ietf-bridge-bridgemib-smiv2-03-RSTP-MIB |
| • by SNMPv2-MIB | RFC1907 |
| • by SNMPv2-SMI | RFC2578 |
| • by SNMPv2-TC | RFC2579 |
| • by TCP-MIB | RFC2012 |
| • by UDP-MIB | RFC2013 |

| Product functions / VLAN | |
|--------------------------------|------------|
| Product function | |
| • VLAN - port based | Yes |
| Number of VLANs / maximum | 255 |
| VLAN identification number | 1 ... 4094 |
| Protocol / is supported / GVRP | Yes |

| Product functions / DHCP | |
|--------------------------|-----|
| Product function | |
| • DHCP client | Yes |
| • DHCP Option 82 | Yes |
| • DHCP Option 66 | No |
| • DHCP Option 67 | No |

| Product functions / Redundancy | |
|--------------------------------|-----|
| Product function | |
| • redundancy procedure STP | Yes |
| • redundancy procedure RSTP | Yes |
| • redundancy procedure MSTP | Yes |
| • eRSTP | Yes |
| Protocol / is supported | |
| • STP | Yes |
| • RSTP | Yes |
| • MSTP | Yes |

| Product functions / Security | |
|------------------------------|--|
| Product function | |

| | |
|--------------------------------------------------------------------------|----------|
| <ul style="list-style-type: none"> • IEEE 802.1x (radius) | Yes |
| Protocol / is supported | |
| <ul style="list-style-type: none"> • TACACS+ | Yes |
| <ul style="list-style-type: none"> • SSL | Yes |
| Key length | |
| <ul style="list-style-type: none"> • with SSL | 128 bit |
| <ul style="list-style-type: none"> • with RSA | 1024 bit |
| Product function / port-rate-limiting | Yes |

Product functions / Time

| | |
|-----------------------------------------------------------------|-----|
| Product function | |
| <ul style="list-style-type: none"> • SNTP client | Yes |
| <ul style="list-style-type: none"> • SNTP server | Yes |
| Protocol / is supported | |
| <ul style="list-style-type: none"> • SNTP | Yes |

Standards, specifications, approvals

| | |
|--------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| Standard | |
| <ul style="list-style-type: none"> • for interference immunity | IEC 61000-6-2, IEEE 1613 Class 2, IEC 61850-3, IEC 61800-3 |
| Certificate of suitability | |
| <ul style="list-style-type: none"> • CE marking | Yes |
| <ul style="list-style-type: none"> • IEC 61850-3 | Yes |
| product conformity | |
| <ul style="list-style-type: none"> • acc. to IEEE 1588 v2-Precision Time Protocol | Yes |

Accessories

| | |
|-------------|--------------------------------------------------------------------------------------|
| accessories | Mounting kits, port modules, power supplies, cables, connectors additional available |
|-------------|--------------------------------------------------------------------------------------|

Further Information / Internet Links

| | |
|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Internet-Link | |
| <ul style="list-style-type: none"> • to website: Industry Mall/RUGGEDCOM selector | http://ruggedcom-selector.automation.siemens.com |
| <ul style="list-style-type: none"> • to website: Siemens RUGGEDCOM | http://siemens.com/ruggedcom |
| <ul style="list-style-type: none"> • to website: Selector for cables and connectors | http://www.siemens.com/snst |
| <ul style="list-style-type: none"> • to website: Industrial communication | http://www.siemens.com/simatic-net |
| <ul style="list-style-type: none"> • to website: Industry Mall | https://mall.industry.siemens.com |
| <ul style="list-style-type: none"> • to website: Information and Download Center | http://www.siemens.com/industry/infocenter |
| <ul style="list-style-type: none"> • to website: Image database | http://automation.siemens.com/bilddb |
| <ul style="list-style-type: none"> • to website: CAx Download Manager | http://www.siemens.com/cax |
| <ul style="list-style-type: none"> • to website: Industry Online Support | https://support.industry.siemens.com |

Security information

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action (e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit <http://www.siemens.com/industrialsecurity>. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit <http://support.automation.siemens.com>. (V3.4)

last modified:

11.12.2015